APPENDIX E VARIANCE REPORTS

	Variance No: PARCEL232QXJANUARY01.VR1 Linked w/NC No: x		
INTERNATIONAL	Date of Issue: 1/31/01		
TECHNOLOGY CORPORATION	Page _1 of 1		
Project Name: Fort McClellan - CK10 \ WAD11	Project Number: 796887.11020300		
-Varianc	e Report -		
I.Description: (by the person identifying the change)			
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RAN X	GES WEST OF IRON MOUNTAIN ROAD, PARCEL 232Q-		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-232QX-MW05. Sample location HR-232QX-MW05 was relocated approximately 50 feet northeast of its proposed location.			
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 1-31-01		
II. Justification for Variance:			
The FSSFSP proposed sample location HR-232QX-MW05 downgradient of a large pit. Sample location HR-232QX-MW05 was not advanced at its proposed location because potential unexploded ordnance (UXO) was encountered at approximately 2 feet to 4 feet below ground surface. Three offsets were attempted to collect a surface soil sample, subsurface soil sample, and install a monitoring well at sample location HR-232QX-MW05, but all attempts were unsuccessful. Therefore, a decision was made by the IT Site Manager to move sample location HR-232QX-MW05 approximately 50 feet northeast and further downgradient of the large pit. Direct-push soil samples were successfully collected for chemical analysis and a monitoring well installed at that location.			
III. Applicable Document/Work Plan: (by the person identifying the change)			
Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments: Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range, and 1950 Rocket Launcher Range, December 2000			
Distribution List:	- Signatures -		
 Jeanne Yacoub, IT Project Manager Steve Moran, IT Technical Lead 	Requested by: Jeffrey Tarr, PG - IT Site Manager 3-5-0/		
 Jeffrey Tarr, IT Site Manager Randy McBride, IT QA Officer 	y - fry . E		
5. Mr. Ellis Pope, US Army Corps of Engineers6. Mr. Ross McCollum, US Army Corps of Engineers	Approved by: Sles C, Page 3/8/0/ Project Manager Approval: C 3/3/0/		

INTERNATIONAL TECHNOLOGY CORPORATION	Variance No: PARCEL232QXFEBRUARY01.VR1 Linked w/NC No: x Date of Issue: 2/26/01 Page _1 of 1	
Project Name: Fort McClellan - CK10 \ WAD11	Project Number: 796887.11020300 nce Report -	
I.Description: (by the person identifying the change)	ice report	
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RA	ANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 232Q-	
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-232QX-MW03. Permanent residuum monitoring well HR-232QX-MW03 was moved approximately 400 feet northwest of direct-push soil boring location HR-232QX-MW03.		
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 2-26-01	
II. Justification for Variance:		
groundwater was not present. Three attempts were made to install decision was made to move permanent residuum monitoring well I approximately 400 feet northwest of the direct-push soil boring loc	sed location because hollow-stem auger refusal was encountered and the monitoring well, but all attempts were unsuccessful. Therefore, a	
III. Applicable Document/Work Plan: (by the person identifying the Final Site-Specific Field Sampling Plan, Site Specific Safety and Hattachments: Ranges West of Iron Mountain Road, Parcels 181(7), 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232QX, Was		
Distribution List: 1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead 3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer 5. Mr. Ellis Pope, US Army Corps of Engineers 6. Mr. Ross McCollum, US Army Corps of Engineers	- Signatures - Requested by: Jeffrey Tarr, PG - IT Site Manager 3 - 5 - 0/ Date Approved by: Approval: January 3/8/6/ Project Manager Approval: January 3/14/6) Date	

INTERNATIONAL TECHNOLOGY CORPORATION	Variance No: Linked w/NC No: Date of Issue:	PARCEL116QFEBRUARY01.VR1 2/28/01 Page _1 of 1	x
Project Name: Fort McClellan - CK10 \ WAD11	Project Number: 796	887.11020300	
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- variance Report -

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 2320X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-116Q-MW14. Permanent residuum monitoring well HR-116Q-MW14 was moved approximately 180 feet south \ southeast of direct-push soil boring location HR-116Q-MW14. The FSSFSP proposed using hollow-stem augers to install residuum monitoring well HR-116Q-MW14. Monitoring well HR-116Q-MW14 was installed using air rotary drilling techniques.

Identified by: Jeffrey Tarr, PG – IT Site Manager Date: 2-28-01

II. Justification for Variance:

I.Description: (by the person identifying the change)

The FSSFSP proposed sample location HR-116Q-MW14 west of Iron Mountain Road in a potential downgradient area identified as an impact area by Explosive and Ordnance Disposal Team (EODT). The permanent residuum monitoring well was not installed at its proposed location because hollow-stem auger refusal was encountered and groundwater was not present. Three attempts were made to install the monitoring well, but all attempts were unsuccessful. Therefore, a decision was made to move permanent residuum monitoring well HR-116Q-MW14 approximately 180 feet south \ southeast of the direct-push soil boring location HR-116Q-MW14. Hollow-stem auger refusal was encountered after the well was relocated and groundwater was not present. Therefore, a decision was made by the IT Site Manager to install residuum well HR-116Q-MW14 using air rotary drilling techniques. Groundwater was encountered using air rotary drilling and the well was successfully installed. This variance will not alter the scope or intent of the Site Investigation at the Ranges West of Iron Mountain Road.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments: Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range, and 1950 Rocket Launcher Range, December, 2000.

Distribution List:

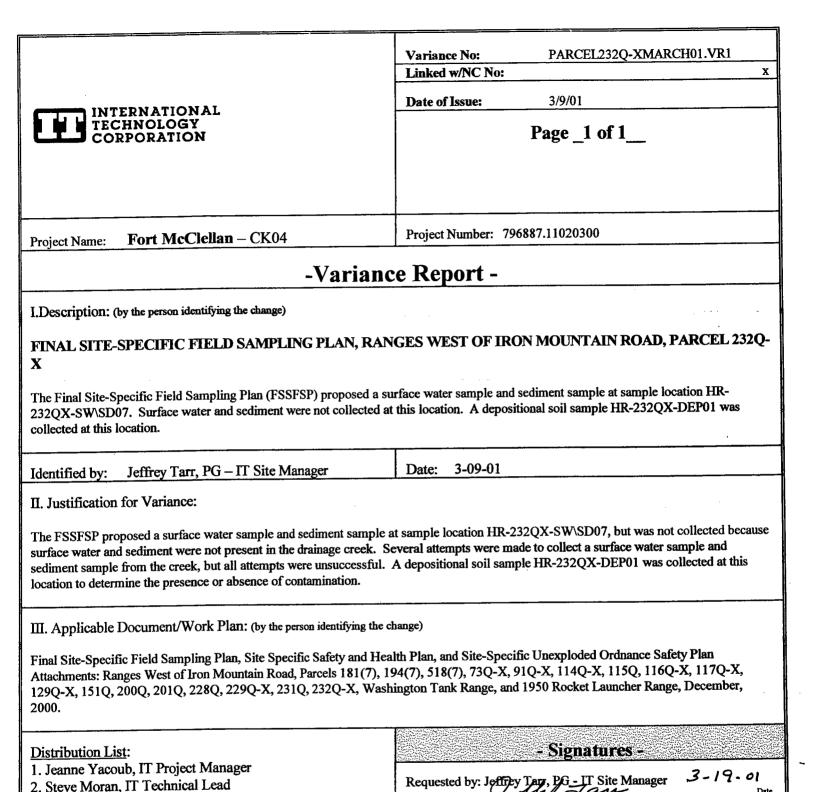
- 1. Jeanne Yacoub, IT Project Manager
- 2. Steve Moran, IT Technical Lead
- 3. Jeffrey Tarr, IT Site Manager
- 4. Randy McBride, IT QA Officer
- 5. Mr. Ellis Pope, US Army Corps of Engineers
- 6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -	
Requested by: Jeffrey Tarr, PG - IT Site Manager	3-5-0/
Approved by: Shi C. Cyse 3/	8/3) Date
Project Manager Approval: laune Ju	on 3/14/4 Date
QA Approval: (Away W) 3	13/01 Date

INTERNATIONAL	Variance No: PARCEL232QXFEBRUARY01.VR2
	Linked w/NC No: x
	Date of Issue: 2/28/01
TECHNOLOGY CORPORATION	Page _1 of 1
CORPORATION	
Project Name: Fort McClellan - CK10 \ WAD11	Project Number: 796887.11020300
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I.Description: (by the person identifying the change)	
TINAL SITE SPECIFIC FIELD SAMPLING PLAN. RA	ANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 232Q-
X	
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The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a	a surface soil sample, subsurface soil sample and groundwater sample at
sample location HR-232QX-MW17. Permanent residuum monito	ring well HR-232QX-MW17 was moved approximately 120 feet southeast
of direct-push soil boring location HR-232QX-MW17.	
Identified by: Jeffrey Tarr, PG - IT Site Manager	Date: 2-28-01
II. Justification for Variance:	
The ESSESD proposed sample location HR-232OX-MW17 in the	eastern section of Parcel 232QX, adjacent and downgradient of an area of
several large pit \ depressions. The permanent residuum monitorin	ng well was not installed at its proposed location because hollow-stem auger
refusal was encountered and groundwater was not present. Three a	attempts were made to install the monitoring well, but all attempts were
menageseful. Therefore, a decision was made to move permanent	residuum monitoring well HR-232QX-MW1/ approximately 120 feet
courtheast of the direct-rush soil boring location HR-232OX-MW1	7. Groundwater was encountered at approximately 35 feet below land
	not alter the scope or intent of the Site Investigation at the Ranges West of
Iron Mountain Road.	
ary 1 Di	
III. Applicable Document/Work Plan: (by the person identifying the	e change)
Final Site-Specific Field Sampling Plan, Site Specific Safety and F	Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Panges West of Iron Mountain Road, Parcels 181(7)), 194(7), 518(7), 73O-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X,
129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Wa	ashington Tank Range, and 1950 Rocket Launcher Range, December 2000
Distribution List:	- Signatures -
1. Jeanne Yacoub, IT Project Manager	
2. Steve Moran, IT Technical Lead	Requested by: Jeffrey Tarr, PG - IT Site Manager 3-5-0/
3. Jeffrey Tarr, IT Site Manager	James Draite
4. Randy McBride, IT QA Officer	Approved by: Shi c Core 3/8/0/ Date
5. Mr. Ellis Pope, US Army Corps of Engineers	N 1 21 1
6. Mr. Ross McCollum, US Army Corps of Engineers	Project Manager Approval: James prow 9/4/6/

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	Variance No: PARCEL91QMARCH01.VR1 Linked w/NC No: x		
INTERNATIONAL TECHNOLOGY CORPORATION	Date of Issue: 3/09/01		
	Page _1 of 1		
	706997 11020300		
Project Name: Fort McClellan - CK04	Project Number: 796887.11020300		
-Varianc	ce Report -		
I.Description: (by the person identifying the change)	and the second s		
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RAN	IGES WEST OF IRON MOUNTAIN ROAD, PARCEL 91Q-		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface water sample and sediment sample at sample location HR-91Q-SW\SD01. Surface water and sediment were not collected at this location. A depositional soil sample HR-91Q-DEP01 was collected at this location.			
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 3-09-01		
II. Justification for Variance:			
The FSSFSP proposed a surface water sample and sediment sample at sample location HR-91Q-SW\SD01, but was not collected because surface water and sediment were not present in the drainage creek. Several attempts were made to collect a surface water sample and sediment sample from the creek, but all attempts were unsuccessful. A depositional soil sample HR-91Q-DEP01 was collected at this location to determine the presence or absence of contamination.			
III. Applicable Document/Work Plan: (by the person identifying the	change)		
Final Site-Specific Field Sampling Plan, Site Specific Safety and He Attachments: Ranges West of Iron Mountain Road, Parcels 181(7), 1 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Was 2000.	alth Plan, and Site-Specific Unexploded Ordnance Safety Plan		
Distribution List:	- Signatures -		
1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead	Requested by: Jeffrey Tarr. PG - IT Site Manager 3 - /4 - 0/		
3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer	Approved by: faster E. Landt (cox) 3-20-01 Date		
5. Mr. Ellis Pope, US Army Corps of Engineers 6. Mr. Ross McCollum, US Army Corps of Engineers	Project Manager Approval Jame Jum 3/30/01		

 	Variance No: PARCEL201QMARCH01.VR1		
	Linked w/NC No: X		
INTERNATIONAL	Date of Issue: 3/09/01		
TECHNOLOGY CORPORATION	Page _1 of 1		
CORPORATION			
Project Name: Fort McClellan - CK10	Project Number: 796887.11020300		
-Varianc	e Report -		
I.Description: (by the person identifying the change)			
	GES WEST OF IRON MOUNTAIN ROAD, PARCEL 201Q		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a su SW\SD01. Surface water and sediment were not collected at this local	rface water sample and sediment sample at sample location HR-201Q- ation. A depositional soil sample HR-201Q-DEP01 was collected at this		
location.			
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 3-09-01		
II. Justification for Variance:			
surface water and sediment were not present in the drainage creek. So	at sample location HR-201Q-SW\SD01, but was not collected because everal attempts were made to collect a surface water sample and		
sediment sample from the creek, but all attempts were unsuccessful.	A depositional soil sample HR-201Q-DEP01 was collected at this		
location to determine the presence or absence of contamination.			
III. Applicable Document/Work Plan: (by the person identifying the c	hange)		
Final Site-Specific Field Sampling Plan, Site Specific Safety and Hea			
Attachments: Ranges West of Iron Mountain Road, Parcels 181(7), 1	94(7), 518(7), 73O-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X,		
129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Wash 2000.	nington Tank Range, and 1930 Rocket Launcher Range, December,		
Distribution List:	- Signatures -		
Jeanne Yacoub, IT Project Manager Steve Moran, IT Technical Lead	Requested by: Jeffrey Tarr, PG - IT Site Manager 3-14-01		
3. Jeffrey Tarr, IT Site Manager	Outlett. Face Date		
4. Randy McBride, IT QA Officer 5. Mr. Ellis Pope, US Army Corps of Engineers	Approved by: flanky E. famott (Cos) 330-01 Date		
6. Mr. Ross McCollum, US Army Corps of Engineers	Project Manager Approval: Anna Navon 3/30/01		



Approved by

QA Approval:

Project Manager Approval:

3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer

	Variance No: PARCEL117QMARCH01.VR1
	Linked w/NC No:
THE PART OF THE PA	Date of Issue:
INTERNATIONAL TECHNOLOGY CORPORATION	Page _1 of 1
Project Name: Fort McClellan – CK10	Project Number: 796887.11020300
	nce Report -
I.Description: (by the person identifying the change)	
1.Description: (by the person menting and analy)	ANGRE WEST OF IRON MOUNTAIN ROAD, PARCEL 117Q-
	ANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 117Q-
X.	to the soil comple and groundwater sample at
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a sample location HR-117Q-MW07. Permanent residuum monitorin direct-push soil boring location HR-117Q-MW07. The FSSFSP p 117Q-MW07. Monitoring well HR-117Q-MW07 was installed us	a surface soil sample, subsurface soil sample, and groundwater sample at an surface soil HR-117Q-MW07 was moved approximately 100 feet northwest of proposed using hollow-stem augers to install residuum monitoring well HR-sing air rotary drilling techniques.
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 3-22-01
X. Permanent residuum monitoring wen FIR-117Q-M wor was in encountered and groundwater was not present. A decision was ma	vestern edge of Parcel 117Q-X, northwest of the firing line for Parcel 116Q-not installed at its proposed location because hollow-stem auger refusal was ade to move permanent residuum monitoring well HR-117Q-MW07 scation HR-117Q-MW07. Groundwater was encountered using air rotary not alter the scope or intent of the Site Investigation for the Ranges West of
III. Applicable Document/Work Plan: (by the person identifying t	the change)
Final Site-Specific Field Sampling Plan, Site-Specific Safety and Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank	Health Plan and Site-Specific Unexploded Ordnance Plan Attachments, 8(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, Range, and 1950 Rocket Launcher Range, December, 2000.
Distribution List:	- Signatures -
1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead	Requested by: Jeffrey Tary, PG - IT Site Manager 3-23-01 Date Approved by: Davy fl. fl. fl Cot 04/11/01 Date
3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer	Approved by: Damy la Math - Cor 04/11/01 Date

Project Manager Approval:

QA Approval:



Variance No:	PARCEL91QMARCH01.VR1	
Linked w/NC No:		Х
Date of Issue:		-

Page 1 of 1

Project Name:

Fort McClellan - CK04

Project Number: 773191.01040200

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 91Q-X.

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample, and groundwater sample at sample location HR-91Q-MW08. The FSSFSP proposed using hollow-stem augers to install permanent residuum monitoring well HR-91Q-MW08. Monitoring well HR-91Q-MW08 was relocated approximately 60 feet east of its proposed location and installed using air rotary drilling techniques.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 3-27-01

II. Justification for Variance:

The FSSFSP proposed sample location HR-91Q-MW08 east of the central section of Parcel 91Q-X, near Iron Mountain Road. Permanent residuum monitoring well HR-91Q-MW08 was not installed at its proposed location because hollow-stem auger refusal was encountered and groundwater was not present. A decision was made to move permanent residuum monitoring well HR-91Q-MW08 approximately 60 feet east of the proposed location. Groundwater was encountered using air rotary drilling and the well was successfully installed. This variance will not alter the scope or intent of the Site Investigation for the Ranges West of Iron Mountain Road.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site-Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments, Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q-X, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q-X, 232Q-X, Washington Tank Range, and 1950 Rocket Launcher Range, December 2000.

Distribution List:

- 1. Jeanne Yacoub, IT Project Manager
- 2. Steve Moran, IT Technical Lead
- 3. Jeffrey Tarr, IT Site Manager
- 4. Randy McBride, IT QA Officer
- 5. Mr. Ellis Pope, US Army Corps of Engineers
- 6. Mr. Ross McCollum, US Army Corps of Engineers

- Signat	ures	

Requested by: Jeffrey Tagr, PG - IT Site Manager 3-3

Approved by: Darry a thill - Cox 04/11/01 Dat

Project Manager Approval: Lame Juon 4/16/01

QA Approval: 4 (16 0 1 Date

	Variance No: PARCEL116QMARCH01.VR1	
INTERNATIONAL	Linked w/NC No:	
	Date of Issue:	
	Date of issue:	
TECHNOLOGY CORPORATION	Page _1 of 1	
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Project Name: Fort McClellan – CK10	Project Number: 796887.11020300	
-Variano	ce Report -	
I.Description: (by the person identifying the change)		
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RAN	NGES WEST OF IRON MOUNTAIN ROAD, PARCEL 116Q.	
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample, and groundwater sample at sample location HR-116Q-MW15. Permanent residuum monitoring well HR-116Q-MW15 was moved approximately 300 feet north of its proposed location.		
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 3-31-01	
II. Justification for Variance:		
The FSSFSP proposed sample location HR-116Q-MW15 approximately 1,000 feet southwest of the top of Iron Mountain in a potential impact area. The sample location was proposed on a hillside with a steep slope and rough terrain unsafe for the drill rig and direct-push rig to access. Therefore, sample location HR-116Q-MW15 was moved approximately 300 feet north of its proposed location, soil samples were successfully collected for laboratory analysis, and the monitoring well installed. This variance will not alter the scope or intent of the Site Investigation for the Ranges West of Iron Mountain Road.		
III. Applicable Document/Work Plan: (by the person identifying the c	hange)	
Final Site-Specific Field Sampling Plan, Site-Specific Safety and Health Plan and Site-Specific Unexploded Ordnance Plan Attachments, Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range, and 1950 Rocket Launcher Range, December, 2000.		
Distribution List:	- Signatures -	
1. Jeanne Yacoub, IT Project Manager	Requested by: Jeffrey Tarr, PG - IT Site Manager 4-12-2001	
2. Steve Moran, IT Technical Lead	Requested by: Jenrey larr, PG-11 Sile Manager 7-12-2-01	
3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer	Approved by: 4-27-01	
5. Mr. Ellis Pope, US Army Corps of Engineers	Project Manager Approval: April 4-27-01 Project Manager Approval: April 4 6 (4506) 5/9/01	
6. Mr. Ross McCollum, US Army Corps of Engineers	Project Manager Approval.	



Variance No:	PARCEL116QAPRIL01.VR1	
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Date of Issue:		

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Project Name:

Fort McClellan – CK 10 \ WAD 11

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, SITE SPECIFIC SAFETY & HEALTH PLAN AND SITE SPECIFIC UNEXPLODED ORDNANCE PLAN ATTACHMENTS, RANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 116Q-X, DECEMBER 2000.

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-116Q-MW04. Permanent residuum monitoring well HR-116Q-MW04 was moved approximately 370 feet east of direct-push soil boring location HR-116Q-MW04. The FSSFSP proposed using hollow-stem augers to install residuum monitoring well HR-116Q-MW04. Monitoring well HR-116Q-MW04 was drilled and installed using air rotary drilling methods.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 4-01-01

II. Justification for Variance:

The FSSFSP proposed sample location HR-116Q-MW04 in a location just west of a bare area seen in the 1969 aerial photograph that appears to have had much activity. Also, Explosive and Ordnance Disposal Team (EODT) identified the area as an impact area. The permanent residuum monitoring well was not installed at its proposed location because hollow-stem auger refusal was encountered and groundwater was not present. Several attempts were made to install the well, but all attempts were unsuccessful. Hollow-stem auger refusal was encountered after the well was relocated and groundwater was not present. Therefore, a decision was made by the IT Site Manager to install residuum well HR-116Q-MW04 using air rotary drilling methods. Groundwater was encountered using air rotary drilling and the well was successfully installed. This variance did not alter the scope or intent of the Site Investigation at the Ranges West of Iron Mountain Road.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Work Plan, Site Specific Safety & Health Plan and Site Specific Unexploded Ordnance Plan Attachments Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range and 1950 Rocket Launcher Range, December 2000.

Distribution List:

- 1. Jeanne Yacoub, IT Project Manager
- 2. Steve Moran, IT Technical Lead
- 3. Jeffrey Tarr, IT Site Manager
- 4. Randy McBride, IT QA Officer
- 5. Mr. Ellis Pope, US Army Corps of Engineers
- 6. Mr. Ross McCollum, US Army Corps of Engineers

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Requested by: Jeffrey Tarr, PG - IT Site Manager 4-13-01

Approved by: 4-27-01

Project Manager Approval. James 5/5/01

QA Approval: Anoque L. Marin 3-5-01

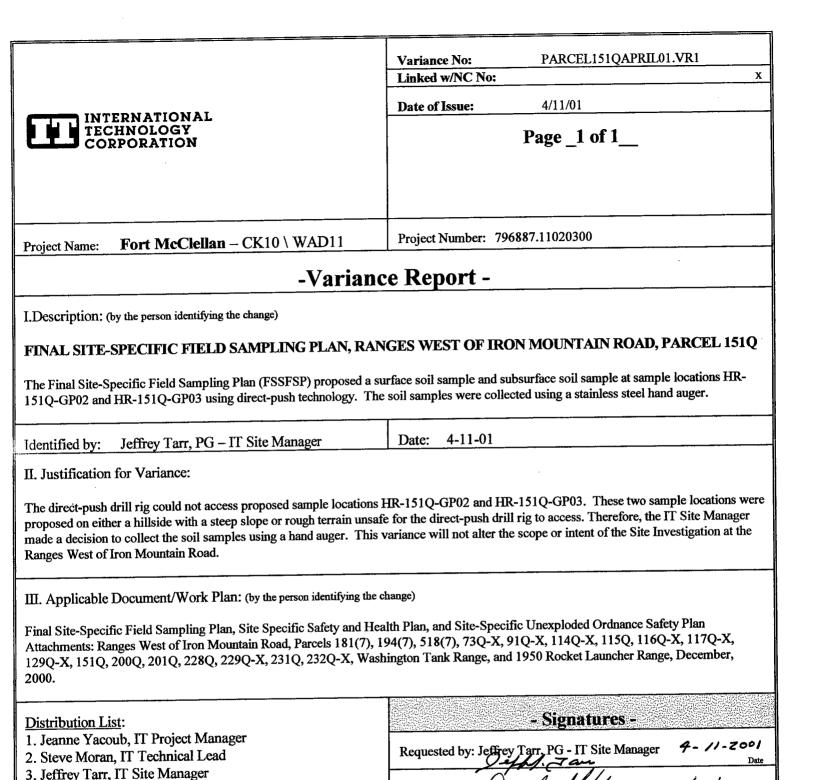
INTERNATIONAL TECHNOLOGY CORPORATION	Variance No: PARCEL116QAPRIL01.VR2 Linked w/NC No: x Date of Issue: Page _1 of 1	
Project Name: Fort McClellan – CK10 \ WAD 11	Project Number: 796887.11020300	
-Variai	nce Report -	
I.Description: (by the person identifying the change) FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, SITE SPECIFIC SAFETY & HEALTH PLAN AND SITE SPECIFIC UNEXPLODED ORDNANCE PLAN ATTACHMENTS, RANGES WEST OF IRON MOUNTAIN ROAD, PARCEL 116Q-X, DECEMBER 2000. The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-116Q-MW07. Permanent residuum monitoring well HR-116Q-MW07 was moved approximately 15 feet east of the direct-push soil boring location HR-116Q-MW07. The FSSFSP proposed using hollow stem augers to install residuum monitoring well HR-116Q-MW07. Monitoring well HR-116Q-MW07 was drilled and installed using air rotary drilling methods.		
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 4-01-01	
116Q-X in a probable impact area with several large trenches. The augers because refusal was encountered and groundwater was not president well HR-116Q-MW07 using air rotary drilling methods.	ation approximately 1,200 feet northeast of the main firing line for Parcel e permanent residuum monitoring well was not installed using hollow-stem present. Therefore, a decision was made by the IT Site Manager to install Groundwater was encountered using air rotary drilling and the well was soil boring location HR-116Q-MW07. This variance will not alter the Mountain Road.	
III. Applicable Document/Work Plan: (by the person identifying the change) Final Site-Specific Work Plan, Site Specific Safety & Health Plan and Site Specific Unexploded Ordnance Plan Attachments Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range and 1950 Rocket Launcher Range, December 2000.		
Distribution List: 1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead 3. Jeffrey Tarr, IT Site Manager	- Signatures - Requested by: Jeffrey Tarr, PG - IT Site Manager 4-/3-0/ Date	

Approved by:

QA Approval:

Project Manager Approval:

4. Randy McBride, IT QA Officer



Approved by

QA Approval:

Project Manager Approval

4. Randy McBride, IT QA Officer

INTERNATIONAL TECHNOLOGY CORPORATION	Variance No: RWIMRPARCELS 73Q, 91Q, 116Q, 194(7), 228Q, 229Q-X, 231Q AND 232QX AUGUST01.VR1 Linked w/NC No: x Date of Issue: 8/20/01 Page _1 of 1	
Project Name: Fort McClellan - CK05 Modification	Project Number: 774645.01320300	
-Varianc	e Report -	
I.Description: (by the person identifying the change)		
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGES WEST OF IRON MOUNTAIN ROAD, PARCELS 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, WASHINGTON TANK RANGE, AND 1950 ROCKET LAUNCHER RANGE.		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed seventy-six groundwater samples for chemical analysis. Groundwater samples were not collected from monitoring wells HR-73Q-MW01, HR-73Q-MW04, HR-116Q-MW04, HR-116Q-MW11, HR-116Q-MW14 and HR-228Q-MW01.		
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 8-20-01	
II. Justification for Variance:		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed seventy-six groundwater samples for chemical analysis. During drilling and monitoring well installation activities, groundwater was encountered at six monitoring well locations HR-73Q-MW01, HR-73Q-MW04, HR-116Q-MW04, HR-116Q-MW11, HR-116Q-MW14 and HR-228Q-MW01. However, during subsequent sampling activities groundwater was not present. Several attempts were made to collect a groundwater sample from the wells, but all attempts were unsuccessful because the wells were dry. Currently, these six wells are being monitored for the presence of groundwater. Should any of these six wells contain groundwater, samples will be collected for chemical analysis.		
III. Applicable Document/Work Plan: (by the person identifying the change) Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range and 1950 Rocket Launcher Range, December 2000.		
Distribution List: 1. Jeanne Yacoub, IT Project Manager 2. Steve Moran, IT Technical Lead 3. Jeffrey Tarr, IT Site Manager 4. Randy McBride, IT QA Officer 5. Mr. Ellis Pope, US Army Corps of Engineers 6. Mr. Ross McCollum, US Army Corps of Engineers	- Signatures -	
	Requested by: Jeffrey Tarr, PG - IT Site Manager 8-2/- 200/	
	Approved by: Starla E. Sant 8-22-01	
	Project Manager Approvals / 1/20/01	

Project Manager Approvak

	Variance No: RWIMRPARCELS 91Q, 116Q, 194(7), 229Q-X, 231Q AND 232QX AUGUST01.VR2	
INTERNATIONAL	Linked w/NC No: x	
TECHNOLOGY CORPORATION	Date of Issue: 8/20/01	
	Page _1 of 1	
Project Name: Fort McClellan – CK 10 \ WAD 11	Project Number: 774645.11020300	
-Variance Report -		
I.Description: (by the person identifying the change)		
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGES WEST OF IRON MOUNTAIN ROAD, PARCELS 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, WASHINGTON TANK RANGE, AND 1950 ROCKET LAUNCHER RANGE.		
The Final Site-Specific Field Sampling Plan proposed collection of seventy-six groundwater samples for chemical analysis. Groundwater samples were not collected from monitoring wells HR-91Q-MW02, HR-91Q-MW05, HR-116Q-MW01, HR-116Q-MW09, HR-116Q-MW10, HR-116Q-MW12, HR-116Q-MW13, HR-116Q-MW15, HR-229Q-MW01, HR-231Q-MW01, HR-232QX-MW12, HR-232QX-MW13, HR-194-MW01, HR-194-MW02 and HR-194-MW03.		
Identified by: Jeffrey Tarr, PG – IT Site Manager	Date: 8-20-01	
II. Justification for Variance:		
During drilling and monitoring well installation activities competent bedrock was encountered, but groundwater was not present. Based upon previous drilling and well installation activities at Fort McClellan, groundwater tends to migrate glong the soil bedrock interface. Therefore,		

During drilling and monitoring well installation activities competent bedrock was encountered, but groundwater was not present. Based upon previous drilling and well installation activities at Fort McClellan, groundwater tends to migrate along the soil bedrock interface. Therefore, a decision was made to install these wells on top of competent bedrock with the intent of having groundwater enter the well screen during periods of heavy rainfall. To date, groundwater has been present in some of the wells. However, there has not been enough groundwater in the wells to collect samples. Currently, these fifteen wells are being monitored for the presence of groundwater. Should any of these fifteen wells contain groundwater, samples will be collected for chemical analysis.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range and 1950 Rocket Launcher Range, December 2000.

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1. Jeanne Yacoub, IT Project Manager

- 2. Steve Moran, IT Technical Lead
- 3. Jeffrey Tarr, IT Site Manager

Distribution List:

- 4. Randy McBride, IT QA Officer
- 5. Mr. Ellis Pope, US Army Corps of Engineers
- 6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -	
Requested by: Jeffrey Tarr, PG - IT Site Manager 8 - 27 - 200/	
Approved by: 10 1 1 1 9/6/6/ Dat	le_
Project Manager Approval: Janue Jum 9/11/0	te_
QA Approval Pansau May 9-10-01	te

	Variance No: RWIMRPARCELS 73Q, 91Q, 116Q, 194(7), 228Q, 229Q-X, 231Q AND 232QX AUGUST01.VR3	
INTERNATIONAL	Linked w/NC No: x	
INTERNATIONAL TECHNOLOGY CORPORATION	Date of Issue: 8/20/01	
	Page _1 of 1	
Project Name: Fort McClellan - CK05 Modification	Project Number: 774645.01320300	
-Variance Report -		
I.Description: (by the person identifying the change)		
FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGES WEST OF IRON MOUNTAIN ROAD, PARCELS 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, WASHINGTON TANK RANGE, AND 1950 ROCKET LAUNCHER RANGE.		
The Final Site-Specific Field Sampling Plan (FSSFSP) proposed using hollow-stem augers to install residuum monitoring wells HR-91Q-MW03, HR-91Q-MW04, HR-116Q-MW05, HR-181-MW01 and HR-232QX-MW15. These five wells were installed using air-rotary drilling techniques.		
Identified by: Jeffrey Tarr, PG - IT Site Manager	Date: 8-20-01	
II. Justification for Variance:		
The FSSFSP proposed drilling with hollow-stem augers at permanent residuum monitoring well locations HR-91Q-MW03, HR-91Q-MW04, HR-116Q-MW05, HR-181-MW01 and HR-232QX-MW15. However, hollow-stem auger refusal was encountered prior to reaching groundwater. Several attempts were made to install the five monitoring wells, but all attempts were unsuccessful. Therefore, a decision was made by the IT Site Manager to install residuum wells HR-91Q-MW03, HR-91Q-MW04, HR-116Q-MW05, HR-181-MW01 and HR-232QX-MW15 using air-rotary drilling techniques. Groundwater was encountered during air-rotary drilling and the wells were successfully installed. This variance will not alter the intent of the Site Investigation for the Ranges West of Iron Mountain Road.		
III. Applicable Document/Work Plan: (by the person identifying the change) Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range and 1950 Rocket Launcher Range, December 2000.		
Distribution List	- Signatures -	

Requested by: Jeffrey Tgrz, PG - IT Site Manager

Approved by:

QA Approval:

Project Manager Approval:

1. Jeanne Yacoub, IT Project Manager

5. Mr. Ellis Pope, US Army Corps of Engineers6. Mr. Ross McCollum, US Army Corps of Engineers

Steve Moran, IT Technical Lead
 Jeffrey Tarr, IT Site Manager
 Randy McBride, IT QA Officer